## **PATENT COOPERATION TREATY**

# **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty) REC'D 14 OCT 2005

(PCT Article 36 and Rule 70)

WIPO PCT

	licant's or agent's file reference 444/St/Li	FOR FURTHER ACTIO	ON	See Form PCT/PEA/416		
BA-1011000000000000000000000000000000000		International filing date (dayA	nonth/year)	Priority date (day/month/year) 09.07.2003		
	mational Patent Classification (IPC) o I D5/26	r national classification and IPC				
	licant LZER PUMPEN AG et al.					
1.	Authority under Article 35 and t	ransmitted to the applicant acc	cording to Article 3	nis International Preliminary Examining 36.		
2.	This REPORT consists of a total		over sheet.			
3.	This report is also accompanie	•				
	a. Sent to the applicant and to the International Bureau) a total of 5 sheets, as follows:					
	sheets of the descri and/or sheets conta Administrative Instr	ining rectifications authorized i	which have been a by this Authority (s	amended and are the basis of this report see Rule 70.16 and Section 607 of the		
	sheets which superbeyond the disclosus Supplemental Box.	sede earlier sheets, but which ire in the international applicati	this Authority con ion as filed, as Ind	siders contain an amendment that goes dicated in item 4 of Box No. I and the		
	sequence listing and/or	I Bureau only) a total of (indica tables related thereto, in comp ce Listing (see Section 802 of	uter readable forn	per of electronic carrier(s)) , containing a monity, as indicated in the Supplemental electrons).		
4.	This report contains indications	relating to the following Items	:			
	☑ Box No. I Basis of the o	nninion				
	Box No. II Priority	<b>,</b>				
		ment of opinion with regard to	novelty inventive	e step and Industrial applicability		
	☐ Box No. IV Lack of unity		riovelty, inventive	e step and industrial applicability		
	☑ Box No. V Reasoned st	atement under Article 35(2) wil citations and explanations sup	th regard to noveli porting such state	ty, Inventive step or Industrial		
	☐ Box No. VI Certain docu					
	☑ Box No. VII Certain defect	ts in the international applicati	on			
	☐ Box No. VIII Certain obse	rvations on the international ap	pplication			
Date	of submission of the demand	Da	te of completion of t	ihis report		
22.04.2005			3.10.2005			
Name and mailing address of the international preliminary examining authority:			thorized Officer	pas Polago		
_	European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 52 Fax: +49 89 2399 - 4465	23656 epmu a	arlsson, L lephone No. +49 89	2399-8424		

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/CH2004/000421

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	Box No. I Basis of the report			
1.	<ol> <li>With regard to the language, this report is based on the international application in the language in w filed, unless otherwise indicated under this item.</li> </ol>			
	which is the language of a tr ☐ international search (und ☐ publication of the interna	slations from the original language into the following language , ranslation furnished for the purposes of: ler Rules 12.3 and 23.1(b)) tional application (under Rule 12.4) examination (under Rules 55.2 and/or 55.3)		
2.	With regard to the elements* of have been furnished to the receiveport as "originally filed" and are	the international application, this report is based on (replacement sheets which iving Office in response to an invitation under Article 14 are referred to in this e not annexed to this report):		
	Description, Pages			
	1, 3, 4, 6-11	as originally filed		
	2, 2a, 5	received on 22.04.2005 with letter of 18.04.2005		
	Claims, Numbers			
	1-15	received on 22.04.2005 with letter of 18.04.2005		
	Drawings, Sheets			
	1/3-3/3	as originally filed		
	☐ a sequence listing and/or an	y related table(s) - see Supplemental Box Relating to Sequence Listing		
3.	☐ The amendments have resulted in the cancellation of: ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):			
4.	☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).  ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify):			
	* If item 4 applies, so	ome or all of these sheets may be marked "supercoded "		

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/CH2004/000421

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-15

No: Claims

Inventive step (IS)

Yes: Claims

No: Claims

1-15

Industrial applicability (IA)

Yes: Claims

1-15

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

### Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

### Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

#### Re Item V.

- The following document is referred to in this communication:
   WO 92/03613 A (AHLSTROEM OY) 5 March 1992 (1992-03-05)
- 1.1 The present invention refers to a method of treating a pulp wherein the pulp is transferred from a first at least medium consistency to a second lower consistency. The pulp is degassed in a consistency higher than said second consistency, whereafter the pulp is pumped to the treatment taking place in the lower consistency. Subsequently the pulp is diluted to the second consistency prior to the treatment.
- 1.2 A method resp. an apparatus for degassing, diluting and treating a pulp is already known from D1. The difference between the present claim 1 and the disclosure of D1 lies in the fact that D1 starts out from a medium consistency pulp, whereas D1 uses an low consistency pulp, i.e. 3-5 % consistency. Indeed, the pulp may be degassed in both pumps (16) and (18) before it is diluted with the white water coming from pump (17). However, this distinguishing feature cannot be considered to be inventive for the following reasons: Firstly, the lowest value of the medium consistency pulps are rather close to the upper limit of the low consistency pulps, i.e. it does not necessarily involve a inventive step just to use a somewhat higher concentration of pulp. Thus, the skilled person would surely also be able to carry out the method of D1 on a somewhat higher concentration of the pulp, i.e. corresponding to the lower range of the medium consistency pulp.

  Secondly, in e.g.D3:US-A-5 139 671 disclose a apparatus for treating medium consistency

pulp, wherein said MD pulp also is diluted to a lower concentration, i.e. the above distinguishing features is as such already known. The skilled person would surely not have any problems in combining the disclosures of D1 and D3 arriving at the subject-matter of claims 1 and 12.

Thirdly, due to the presently very generally defined wording of claims 1 and 12, it is not possible to formulate any specific problem that should be solved by these features.

Thus, the requirements of Article 33.3 PCT are not satisfied with regard to D1 taken alone or in combination with D3.

1.3 Presently do the separate features of the dependent claims not seem to add any

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

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novel and inventive matter with regard to the disclosure of D1 (Art.33.2 and 33.3 PCT). However, a combination of these features may nevertheless satisfy the requirements of Article 33.3 PCT.

#### 2. Re Item VI

2.1 Reference is given to the document EP-A-1 416 084.

#### 3. Re Item VII

3.1 D1 and/or D3 should be acknowledged in the description as representing closest prior art (Rule 5.1(a)(i)-(iv) PCT.

#### 4. Re Item VIII

- 4.1 The present claim 1 lacks clarity, since it only very generally refer to different treatments of the pulp, without actually defining the type of treatment (Art.6 PCT).
- 4.2 The present claim 1 refer to process steps a to c. However, it is presently not clear if the sequence of these process steps must be applied as defined in claim 1 (Art.6 PCT). Indeed, process steps b) and c) are presently rather confusingly defined, since the pulp is pumped, at a lower consistency to the place where the treatment takes place, whereafter the pulp is diluted to the lower consistency, i.e. a clarification is necessary.
- 4.3 According to the present claim 11 it is preferred that the, e.g. washing is carried out at the low consistency, whereas claim 17 states that the washing preferable should be carried out at the higher consistency (Art.6 PCT).